

VTCN1

Recombinant Human B7-H4:Fc Chimera

Catalog No.	CRH028	Quantity:	100 µg
Alternate Names:	B7-H4, B7H4, B7S1, B7X, B7h.5, PRO1291, VCTN1		
Description:	B7-H4 is a B7 family member that negatively regulates T cell immunity by inhibiting of T cell proliferation, cytokine production, and cell cycle progression. In vitro, B7-H4 inhibits CD4+ and CD8+ T cell proliferation, cytokine production, and generation of alloreactive cytotoxic T-cells (CTLs). In vivo, blockade of endogenous B7-H4 by specific monoclonal antibody promotes T cell responses. B7-H4 is an important negative regulator of innate immunity through growth inhibition of neutrophils. B7-H4 is expressed on some tumor cancer cells. The role of B7-H4 in tumor progression may be to transform precancerous cells and then protect them from immunosurveillance.		
UniProt ID:	Q7Z8D3		
Gene ID:	79679		
Sequence:	The extracellular domain of human B7-H4 (aa 29-258) is fused to the N-terminus of the Fc region of human IgG1.		
Source:	CHO cells		
Formulation:	Lyophilized from sterile-filtered solution PBS.		
Purity:	≥98% by SDS-PAGE		
Endotoxin Level:	<0.06 EU/µg purified protein as determined by LAL test		
Biological Activity:	Measured by the ability to inhibit anti-CD3-induced proliferation of stimulated human T cells. Human T lymphocytes cultured for 72 hours with PHA were incubated for an additional 3 days in 96 well plate coated with 500 ng/ml anti-CD3 and 10 µg/ml human B7H4:Fc. The presence of human B7H4:Fc at 10 µg/ml inhibited anti CD3 response by 30-50%. Optimal dilutions should be determined by each laboratory for each application.		
Reconstitution:	Reconstitute with 100 µL sterile water to yield 1 mg/mL solution. Add 1X PBS to the desired protein concentration.		
Storage & Stability:	Store unopened at -20°C to -80°C for at least 1 year. After reconstitution, prepare aliquots and store at -20°C to -80°C for up to 3 months . Avoid repeated freeze-thaw cycles.		

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